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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/521,760	02/03/2006	Driss Stitou	032013-113	4201
21839 7590 01/18/2008 BUCHANAN, INGERSOLL & ROONEY PC POST OFFICE BOX 1404			EXAMINER	
			ALI, MOHAMMAD M	
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER
			3744	
•		,	NOTIFICATION DATE	DELIVERY MODE
			01/18/2008	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com debra.hawkins@bipc.com

	Application No.	Applicant(s)				
	10/521,760	STITOU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Mohammad M. Ali	3744				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period was realiure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  18(a). In no event, however, may a reply be tirting  18(a) in no event, however, may a reply be tirting  18(b) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C.§ 133).				
Status						
1) Responsive to communication(s) filed on 03 Fe	ebruary 2006.					
,	•					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) ⊠ Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-8,10,11 and 13 is/are rejected. 7) ⊠ Claim(s) 9 and 12 is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 03 February 2006 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	e: a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).	-			
Priority under 35 U.S.C. § 119		,				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 01/09/05.	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date				

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 6, 7, 10 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Goetz Vincent (WO 97/403328). Goetz, Vincent discloses a method of refrigeration using a thermochemical system comprises three reversible phenomena involving the gas G in three chambers (18), (10) and (12), the respective equilibrium temperatures TE(18), TE(1) and TE(12) at a given pressure being such that TE(18) state in which the three chambers are at ambient temperature and at the same pressure in a first step, the chamber (10) is isolated and the chambers (18) and (12) are brought into communication (The valves22, 24, 26, 28, 30 and pipe s 32 and 34 connection system are so arrange the system can be places at any desires connection position) in order to carry out the exothermic synthesis in (12), the heat produced being absorbed by the chamber (10); in a second step, the chamber (12) is isolated and the chambers (18) and (10) are brought into communication in order to carry out the exothermic synthesis in (10), the heat produced being absorbed by the chamber (12); and in a third step, the three chambers are brought into communication and thermal energy is supplied to the chamber (10) in order to carry out the exothermic decomposition steps in (10) and in (12), for the purpose of regenerating the installation,

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which is then left to return to the ambient temperature. See Fig. 1, abstract and supplied relevant document.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-5, 8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goetz, Vincent. Goetz, Vincent discloses the invention substantially as claimed as stated above stated steps such as the adsorption of gas on solid falls within the realm of common knowledge as obvious mechanical expedient and this illustrated by Goets, Vincent which teach the use of the reactors 10, 12 in various ways by desired opening closing the valves 22, 24, 26, 28 and 30. Therefore, Goetz, Vincent obviously read the above claims.

## Allowable Subject Matter

Claims 9 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad M. Ali whose telephone number is 571-272-4806. The examiner can normally be reached on maxiflex.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl J. Tyler can be reached on 571-272-4808. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MOHAMMAD M. ALI

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MARY EXAMINER